

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

LIBRARY

RECEIVED

★ JUN 30 1949 ★

J. S. DEPARTMENT OF AGRICULTURE
BELTSVILLE BRANCH

THE PLANT DISEASE REPORTER

Issued By

THE PLANT DISEASE SURVEY

Division of Mycology and Disease Survey

BUREAU OF PLANT INDUSTRY, SOILS, AND AGRICULTURAL ENGINEERING

AGRICULTURAL RESEARCH ADMINISTRATION

UNITED STATES DEPARTMENT OF AGRICULTURE

SUPPLEMENT 179

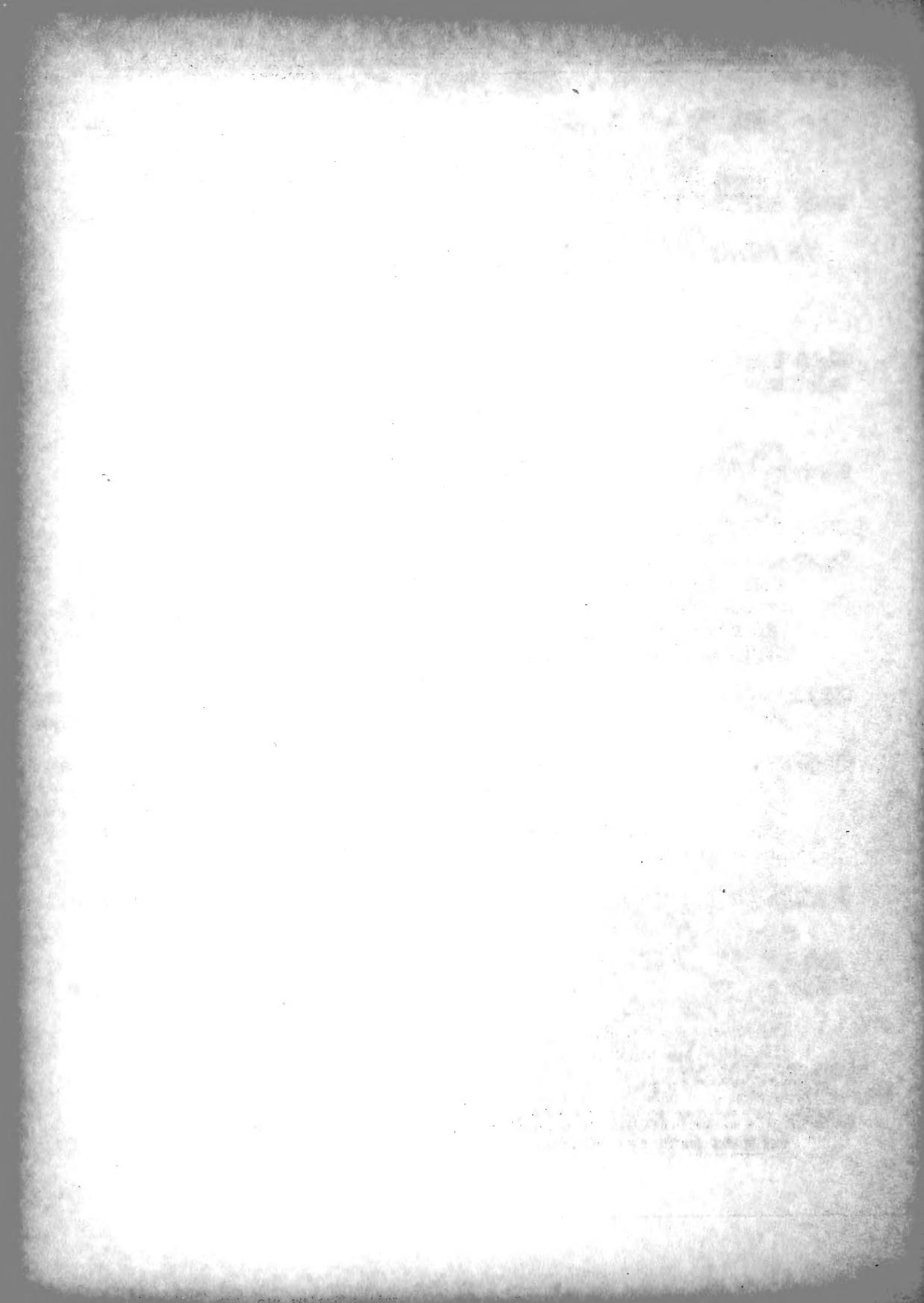
INDEX TO SUPPLEMENTS 173-178, 1948

Supplement 179

Issued June 15, 1949



The Plant Disease Reporter is issued as a service to plant pathologists throughout the United States. It contains reports, summaries, observations, and comments submitted voluntarily by qualified observers. These reports often are in the form of suggestions, queries, and opinions, frequently purely tentative, offered for consideration or discussion rather than as matters of established fact. In accepting and publishing this material the Division of Mycology and Disease Survey serves merely as an informational clearing house. It does not assume responsibility for the subject matter.



PLANT DISEASE REPORTER SUPPLEMENT

Issued by

THE PLANT DISEASE SURVEY
DIVISION OF MYCOLOGY AND DISEASE SURVEY

Plant Industry Station

Beltsville, Maryland

INDEX TO PLANT DISEASE REPORTER
SUPPLEMENTS 173-178, 1948

Compiled by Nellie W. Nance

Plant Disease Reporter
Supplement 179

Index to Supplements
1948

LIST OF SUPPLEMENTS

Supplement 173. Host index of the parasitic fungi of Szechwan, China. pp. 1-38. January 15, 1948. By Lee Ling. Genera of hosts are listed below.

Supplement 174. Report of the Special Committee on the coordination of field tests with new fungicidal sprays and dusts, with reference to results obtained in 1947. pp. 39-86. March 1, 1948. Foreword and crop fungicide tests by various authors; see its table of contents and author index below.

Supplement 175. Summary of cooperative tests of cotton seed treatments -- 1947. pp. 87-94. May 1, 1948. Cooperators, see author index below.

Supplement 176. 1947 Fungicide Tests: A summation of nation-wide results with newer fungicides. pp. 95-142. May 15, 1948. Compiled by the Fungicide Committee of the American Phytopathological Society: Sub-committee on "Summation of the Performance of Newer Fungicides". See its table of contents and author index below.

Supplement 177. Some unusual or outstanding plant disease developments in the United States in 1947. pp. 143-169. October 15, 1948. Compiled by Nellie W. Nance.

Supplement 178. The warning service in 1948: tobacco blue mold, potato and tomato late blight, cucurbit downy mildew. pp. 171-291. December 30, 1948. By Paul R. Miller and Muriel O'Brien. State reports by various authors; see its index pp. 289-291 and author index below.

Supplement 179. INDEX to Supplements 173 to 178. pp. 293-309
(Issued June 15, 1949).

AUTHOR INDEX

ANDERSON, P. J., 248
 ARNDT, C. H., (87)

BAIN, DOUGLAS F., 234
 BARSS, H. P., (95)
 BIRD, J. J., (212), (243), (258), (267)
 BISHOP, C. F., 214, 245, 260
 BLANK, L. M., (87)
 BORDERS, H. I., 225
 BOYD, O. C., 199, 230, 254, 263
 BRENTZEL, W. E., 205, 240
 BUCHHOLTZ, W. F., 63, 197, 228
 BURKE, O. D. (207)

CALLEBECK, L. C., 185
 CLAYTON, E. C., (95)
 COOK, HAROLD T., 217
 COX, C. E., 199, 228, 253, 262
 CUNNINGHAM, H. S., 202, 236, 264

DIMOCK, A. W., 61

EIDE, CARL J., 200, 234, 255
 ELLIS, D. E., 239, 264
 EPPS, J. M., (87)
 EPPS, WILLIAM M., 209, 242, 266

FELIX, E. J., 212, 258, 267, 343
 FENNE, S. B., (244), (259), (268)
 FERNOW, K. H., 203, 237, 264

GAINES, J. G., 251
 GARRISS, HOWARD R., 255
 GODFREY, G. H., 212, 243, 259, 268
 GOLDSWORTHY, M. C., (95)
 GRAHAM, T. W., 256

HAENSELER, C. M., 202, 235
 HAMILTON, J. M., 45
 HARRISON, A. L., 213, 268
 HARRISON, K. A., 185, 220
 HASKELL, R. J., (95)
 HAWKINS, B. S., (87)
 HEGGESTAD, H. E., 258
 HENDERSON, R. G., (244), (259), (268)
 HEUBERGER, J. W., (95), 192, 222, 261

HILLBORN, M. T., 199, 228
 HOOTON, D. R., (87)
 HOWATT, J. L., 183
 HUGHES, MCRRIS B., (266)

KINCAID, R. R., 250
 KIRBY, R. S., 207, 241, 256, 265
 KOCH, L. W., 247

LEHMAN, S. G., (87)
 LEUKEL, R. W., (95)
 LING, LEE, 1
 LINN, M. B., 81

MACHACEK, J. E., 183
 MacLACHLAN, J. D., 188, 221
 McCLELLAN, W. D., (95)
 MILLER, PAUL R., (95), 171

NAGEL, C. M., 210, 243
 NANCE, NELLIE W., 143
 NEAL, D. C., (87)
 NEWHALL, A. G., 49
 NIELSEN, L. W., 204
 NUGENT, T. J., 213, 244, 269

O'BRIEN, MURIEL, (171)

PERRAULT, C., 190, 221
 PRESLEY, J. T., (87)

RAY, W. W., (87)
 REINKING, OTTO A., 237
 RICH, SAUL, 190, 222
 RICHARDS, M. C., 201, 235
 RICHARDSON, L. T., 188, 221
 ROGERS, C. H., (87)
 ROWELL, J. B., 208, 242, 266
 RUEHLE, GEORGE D., 194, 225, 262

SAMSON, R. W., 195, 228
 SIMPSON, D. M., (87)
 SMITH, A. L., (87)
 STEVENS, R. F., (192), (222), (261)
 STODDARD, DAVID L., 192, 222, 249, 261
 STRONG, M. C., 231

TEHON, L. R., 195, 226
 VALLEAU, W. D., 228, 252, 262
 VAUGHAN, R. E., 215, 246, 269
 WEBER, GEORGE F., 194, 224, 262

WILSON, COYT, 182, 220
 WILSON, J. D., 41, (49), (81), 206,
 240
 WINGARD, S. A., 244, 259, 268
 WINTER, H. F., 73
 YOUNG, V. H., (87)

SUBJECT INDEX

Abies delavayi: *Lophodermium ner-*
visequum, 4
Abutilon avicinnae: diseases in
 China, 4
Acer spp.: diseases in China, 4
 --- *platanoides*: anthracnose, 132
Achyranthes bidentata: diseases
 in China, 4
Aesculus hippocastanum: leaf blotch,
 131
Agaricus campestris: vert-de-gris,
 159
Agave americana, *Coniothyrium*
agaves, 4
Agropyron spp.: diseases in China,
 4
 --- *repens*: *Physoderma* sp. new
 in Wis. and 1st rept. in North
 Amer., 152
 Alabama, 97, 150, 159, 168, 169
Alangium platanifolium: diseases
 in China, 4
 Alberta, 97
Albizia julibrissin: *Fusarium*
 wilt distribution, 168; *Ravene-*
lia japonica, 4
Aleurites fordii: diseases in China,
 5; *Septobasidium pseudopedicella-*
tum in La., 1st rept. on this
 host, 159
Allium spp.: diseases in China, 5
Alnus cremastogene: diseases in
 China, 5
Alopecurus japonicus: diseases in
 China, 5
Alternanthera sessilis: *Albugo*
bliti, 5
Alternaria, on cabbage, 126
 --- leaf spot, of cabbage, 125
(Alternaria) solani, see early
 blight of potato and tomato
Althaea rosea: diseases in China,
 5
Amaranthus spp.: diseases in China,
 5
Andropogon annulatus: *Puccinia*
cesatii, 5
Anemone spp.: diseases in China, 6
Anther mold, of *Trifolium repens*
 var. *Ladino*, 151
 Anthracnose, fungicide tests for
 control of, on *Acer platanoides*
 132, *Antirrhinum majus* 131,
 bean 124, 126, cotton 139, cu-
 curbits 57, 126, *Platanus occi-*
dentalis 132, raspberry 115,
Sassafras albidum 132, tomato
 82, 119, 120; of *Lucinus angusti-*
folius, 150; oats, 146; peach,
 164
Antirrhinum majus: anthracnose,
 fungicide tests for control of,
 131; diseases in China, 6; rust
 130, fungicide tests for control
 of, 61
Aphelenchoides ritzema-bosi, 167
Apium graveolens: diseases in
 China, 6
Apple: fungicides for control of--
 black rot 47, 111, blotch 47, 111
 Brook's fruit spot 47, 111, rust
 110, scab 47, 109
Apple rust, of *Juniperus* spp., 169
Apricot: *Sclerotinia sclerotiorum*,
 in South Africa, 163
Arachis hypogaea: *Cercospora per-*
sonata, 6
Aralia chinensis: *Aecidium* sp., 6

Arasan, 44
 Arkansas, 97, 146, 148, 154, 165
Artemisia spp.: diseases in China, 6
Arthraxon hispidus: diseases in China, 6
Arundinella anomala: diseases in China, 6
Ascochyta gossypii, 159
Aspergillus sp., on rice, 148
Aster indicus: diseases in China, 6
Astilbe chinensis: *Sphaerotheca humuli*, 7
Astragalus spp.: diseases in China, 7
 Atlantic Coastal States, 153
Avena sativa: diseases in China, 7
 Avocado: *Dothiorella* rot, 115
 Azalea: petal blight, 166; root rot, 166
 Bacterial blight, of bean, 157;
Corylus sp., 166; *Juglans regia*, 166
 Bacterial canker, of *Vigna sinensis*, 152
 Bacterial leaf spot, of *Begonia* sp., 166
 Bacterial spot, of Japanese plum, 165; peach, 112, 165
 Bacterial twig and blossom blight, of raspberry, 165
 Bacterial wilt, of bean, 157; of *Medicago sativa*, 150; tomato, 154
 Bacteriosis, of walnut, 114
Bacterium solanacearum, 154
Bambusa spp.: diseases in China, 7
 Barley: covered smut, 139; loose smut, 147; powdery mildew, 147; scald, 1st rept. from W. Va. and Pa., 147
 Bean: anthracnose, fungicide tests for control of, 124, 126; bacterial blight, 157; bacterial wilt, 157; black root (virus), 157; greasy pod (virus), 157; mosaic (virus) 157; root knot, fungicide tests for control of, (Bean) 136; white mold, 157; yellow bean mosaic (virus), 157
 Bean, lima: insect injury, 156;
Nematospora phaseoli 1st rept. from La., 156; stem anthracnose, fungicide tests for control of, 123
 Beet: downy mildew, fungicide tests for control of, 125, 126
 Beet, sugar: root knot, fungicide tests for control of, 135; sugar beet nematode, fungicide tests for control of, 135
Begonia sp.: bacterial leaf spot, 166
Berberis spp.: diseases in China, 7
Beta vulgaris: diseases in China, 7
Betula spp.: dieback (?virus), 169
Eidens spp.: diseases in China, 7, 8
 Bioquin 1, 44
 Biquin 100, 44
Bischofia trifoliata: *Uncinula ehretiae*, 8
 Bismuth subsalicylate, 44
 Bitter rot, of sour cherry, 164
 Blackberry: cane rust, 165
 Blackleg, of cabbage, 153
 Black root rot, of tobacco, 162
 Black rot, of apple, fungicide tests for control of, 47, 111; of cabbage, 153; cucurbits, fungicide test for control of, 57
 Black rot, of grape, fungicide tests for control of, 79, 113, of squash 123
 Black-shank, of tobacco, 162
 Black sheath rot, of rice, 148
 Black spot, of *Rosa*, fungicide tests for control of, 130
 Blast, fungicide tests for control of, on *Citrus* 114, on onion 49
 Blight, of peach, 164
 Blossom drop, of tomato, 156
 Blossom-end rot, of squash, fungicide tests for control of, 123
 Blossom rot, of cucurbits, fungicide tests for control of, 57
 Blotch, of apple, fungicide tests for control of, 47, 111

Blue mold, of *Nicotiana repanda* in Tex., 162; of tobacco, 160, fungicide tests for control of, 133, in warning service area see index to Suppl. 178, pp. 289-291

Bordeaux injury, of peach, 164

Bordeaux mixture, 44

Bothriochloa pertusa: diseases in China, 8

Bothriospermum kusnezowii: *Peronospora bothriospermi*, 8

Botrytis, of *Citrus*, fungicide tests for control of, 114

--- *anthophila*, on *Trifolium repens* var. *Ladino*, in Oregon, 151

--- blight, of potato, fungicide tests for control of, 66

--- *elliptica*, 167

Brassica spp.: diseases in China, 8, 9

Brazil, 150

Brown rot, fungicide tests for control of, on cherry 112, *Citrus* 114, peach 74, 112

Brown rot blossom blight, of peach, 164

Brook's fruit spot, of apple, fungicide tests for control of, 47, 111

Broussonetia papyrifera: diseases in China, 9

Bunt, of wheat, 140

Cabbage: *Alternaria*, fungicide tests for control of, 125, 126; blackleg in Puget Sound seed, 153; blackrot, 153; downy mildew, fungicide tests for control of, 125, 126, 133

Calamagrostis sp.: *Puccinia coronata*, 9

Calendula arvensis: *Sclerotinia sclerotiorum*, 9

--- *officinalis*: rust, 167

California, 61, 97, 154, 155, 168

Callistephus chinensis: *Septoria callistephi*, 9

Calogreen, 44

Calystegia hederacea: diseases in China, 9

Camellia japonica: diseases in China, 9

--- --- *Sclerotinia sclerotiorum* in Chile, 168

Campanula medium: *Sclerotinia sclerotiorum*, 9

Camptotheca acuminata: diseases in China, 9

Canarium album: diseases in China, 9

Cane rust, of blackberry, 165

Canker stain, of *Platanus acerifolia*, 169

Canna indica: [*Macrosporium*] *bulbo-trichum*, 9

Cantaloupe: downy mildew, fungicide tests for control of, 55, 122

Capillipedium parviflorum: diseases in China, 9

Capsella bursa-pastoris: diseases in China, 9

Capsicum annuum: diseases in China, 10

Caragana microphylla: *Microsphaera pseudolonicerae*, 10

Cardamine flexuosa subsp. *debilis*: diseases in China, 10

Carex spp.: diseases in China, 10

Carpesium spp.: diseases in China, 10

Carrot: diseases, fungicide tests for control of, 49; root knot control, 136

Carya spp.: leaf spot, fungicide test for control of, 131

Castanea mollissima: diseases in China, 10

Castanopsis sp.: *Erysiphe japonica*, 11

Cedrela macrocarpa: *Phyllactinia corylea*, 11

Celery: fungicide tests for control of *Cercospora*, 53, 124, 126; mosaic (virus) 152

Celosia cristata: diseases in China, 11

Celtis spp.: diseases in China, 11

Centella asiatica: *Septoria centellae*, 11

Cerastium sp.: *Melampsorella caryophyllacearum*, 11

Ceratophorum setosum, on *Lupinus angustifolius*, (Ga.) 1st rept. from U. S., 150

Cercospora blight, of *celery*, fungicide tests for control of, 53, 124, 126

Ceresan, 44

Ceresan-M, 87

Ceylon, 150

Chenopodium album: diseases in China, 11

Cherry: fungicide tests for control of brown rot and leaf spot, 111; little cherry disease (virus), 163; ring spot, 111

---, sour: bitter rot, 1st rept. from W. Va., 164; X-disease (virus), 164

---, sweet: virus diseases in Montana, 163

China, 1

Choanephora cucurbitarum, 57

Chokecherry: X-disease (virus), 164

Chrysanthemum spp. diseases in China, 11; leaf spot (foliar nematode), 167; *Septoria* leaf spot fungicide tests for control of, 62, 129

Cinnamomum sp.: *Puccinia cinnamomi*, 11

Cirsium spp.: diseases in China, 11, 12

Citrullus vulgaris: *Fusarium bulbigenum* var. *niveum*, 12

Citrus: diseases in China, 12; fungicide tests for control of blast, *Botrytis*, brown rot, melanose and *Septoria* spot, 114; *Sclerotinia sclerotiorum*, 168

Cleistogenes serotina: *Puccinia diplachnicola*, 13

Clematis montana: *Coleosporium clematidis*, 13

Clitocybe tabescens, 167

Cocomyces hiemalis, 76

COC-S, 44, 65

Coix lachryma-jobi: diseases in China, 13

Colchicum autumnale: leaf rot and spot, 167

Colletotrichum sp., on *Lupinus angustifolius*, 150

--- *antirrhini*, 131

--- *gossypii*, 88

--- *graminicolum*, 146

--- *lagenarium*, 57

--- *phomoides*, 82

Colocasia esculenta: diseases in China, 13

Colorado, 97, 149, 156, 158

Commelina longicaulis: carrier of mosaic virus, 153

Connecticut, 63, 71, 81, 97

Cooperators, 1947 Fungicide tests, 41, 97

Copper A, 44

Copper spot, of bent turf, 132

Copper zinc chromate, 44

Coriaria sinica: diseases in China, 13

Corn: seedling blights, fungicide tests for control of, 141

Cornus florida: twig blight, fungicide tests for control of, 131

Corylus sp.: bacterial blight, 166

--- *heterophylla*: *Microsphaera coryli*, 13

Corynebacterium flaccumfaciens, 157

--- *insidiosum*, 150

Coryneum carpophilum, 164

Cotton: anthracnose, seed treatment tests, 88; fungicide tests for control of anthracnose 139, damping-off 139, *Fusarium* wilt 135, meadow nematode 135, root knot 135; *Phymatotrichum* root rot in La., 1st rept., 159; *Rhizoctonia solani*, 89; seed treatment tests 1947, Suppl. 175, pp. 87-94; *Verticillium* wilt, 1st rept. in N. C., 160; "Wet weather canker", 159

Covered smut, fungicide tests for control of, on barley 139, oats 140

Cranberry: fruit rots, fungicide tests for control of, 113
Crataegus mollis: hawthorn rust, 169
 --- *oxyacantha*: leaf blight, fungicide tests for control of, 131
 --- *pinnatifida*: diseases in China, 13
Crepis japonicus: diseases in China, 13
Crown rust, of cats, 147
Cucumber, see under *Cucurbits*
Cucurbits: anthracnose, 126; diseases in China, 13; downy mildew, 122, 126, 127, 153; fungicide tests for control of diseases, 55, in warning service area see index to Suppl. 178, pp. 289-291; mosaic (cantaloupe mosaic virus), 154
Cudrania tricuspidata: *Uncinula miyabei*, 14
Cunninghamia lanceolata: diseases in China, 14
Cupressus funebris: *Gymnosporangium cupressi-funebris*, 14
Cupro K, 44
Cuproicide, 44
Curvularia lunata, on *Gladiolus spp.*, new host, in Fla. and Ala., 168
Cycas revoluta: *Coniothyrium olivaceum*, 14
Cydonia spp.: diseases in China, 14
Cymbidium virescens: *Colletotrichum orchidearum*, 14
Cynodon dactylon: diseases in China, 14

Daffodil, see *Narcissus pseudo-narcissus*
Dahlia variabilis: diseases in China, 14
Damping-off, of cotton, fungicide tests for control of, 139
Datura alba: diseases in China, 14
Daucus carota: diseases in China, 14
DDT, 63
Delaware, 45, 53, 55, 63, 71, 73, 81, 97, 154

Dianthus spp.: diseases in China, 14
Diaporthe phaseolorum var. *sojae*, 151
Dichrocephala latifolia: *Sphaerotheca fuliginea*, 14
Dieback, of peach, 164
Digitaria sanguinalis: diseases in China, 15
Diospyros kaki: *Cercospora kaki*, 15
Disporum pullum: *Aecidium dispori*, 15
Distribution, of vegetation and crops in Szechwan, China, vertical zonation of climate, 2
Dithane, 44
Dogwood, see *Cornus florida*
Dolichos lablab: diseases in China, 15
Dollar spot, of bent turf, fungicide tests for control of, 132
Dothiorella rot, of avocado, fungicide tests for control of, 115
Dow 9B, 87
Dowicide 98, 44
Downy mildew, fungicide tests for the control of, on beet, 125, 126, on cabbage 125, 126, 133, on cantaloupe 122, on cucurbits 55, 126, 127, on grape 113, on onion 49, 51, 125, 126, on spinach 124, 126, on tobacco 133, on watermelon 123; of cucurbits 153, in warning service area, see index to Suppl. 178, pp. 289-291; grape 166, *Medicago sativa* 150; oats, 147; onion 152; shallot 152; wheat 149

Early blight, of potato, fungicide tests for control of, 66, 118, 119, 126, 127; of tomato, fungicide tests for control of, 82, 120, 126, 127
Echinochloa crus-galli: diseases in China, 15
Eclipta alba: *Sclerotinia sclerotiorum*, 15
Ehretia macrophylla: *Uredo ehretiae*, 15
Elaeagnus pungens: *aecidium elaeagni*, 15
Eleusine indica: *Helminthosporium nodulosum*, 15

Elscholtzia sp.: *Erysiphe galeopsis*, 15
Endoconidiophora sp., on *Platanus acerifolia*, 169
 England, 167
Enkianthus chinensis: *Aecidium enkianthi*, 15
Entomosporium thuemenii, 131
Epimedium pubescens: *Puccinia epimedii*, 15
Eragrostis spp.: diseases in China, 16
Erigeron spp.: diseases in China, 16
Eriobotrya japonica: diseases in China, 16
Erwinia amylovora, 165
 --- aroideae, 160
 --- carotovora, 158
Erysiphe cichoracearum, 58
 --- graminis, 147
 --- graminis var. tritici, 148
Euphorbia sp.: *Cercospora euphorbiae*, 16
 Europe, 150
Evodia spp.: diseases in China, 16
Evonymus japonicus: diseases in China, 16

 Fermate, 44
Ficus elastica (see also fig) mushroom root rot, 167
 Fig (see also *Ficus*) mosaic (virus), 163; *Sclerotinia sclerotiorum*, 168
 Fireblight, of pear, 165
Firmiana simplex: *Phyllactinia corylea*, 16
 Flax: improving stands, 140
 Florida, 97, 150, 152, 158, 162, 167, 168, 169
Forsythia viridissima: twig blight, 1st rept. from N. C., 167
Fragaria spp.: diseases in China, 16
Fraxinus spp.: diseases in China, 16, 17
 Fruit rots, of cranberry, fungicide tests for control of, 113

 Fruits: fungicides for control of diseases, 109
 Fungicide tests, cooperators in 1947, 41, 97; results with newer fungicides 1947, Suppl. 174, pp. 39-86, Suppl. 176, pp. 95-142
 Fungicides used in 1947 tests, 102
 Fungicides, newer, for seed treatment, 142
Fusarium sp., on rice, 148; tomato, 155
 --- basal rot, of *Narcissus pseudonarcissus*, fungicide tests for control of, 129
 --- brown rot, of *Gladiolus*, fungicide tests for control of, 129
 --- *oxysporum* f. *perniciosum*, 168
 --- wilt, fungicide tests for control of, on cotton 135, on sweet-potato, 141
 --- yellows, of *Gladiolus*, fungicide tests for control of, 129

Galium aparine: diseases in China, 17
Galla australiensis, 155
Gardenia angusta: *Gloeosporium* sp., 17
 Georgia, 97, 146, 150, 159, 161, 163, 169
Gibberella zeae, 148
Ginkgo biloba: diseases in China, 17
Gladiolus: *Curvularia* spot, new host in Fla. & Ala., 168; fungicide tests for control of *Fusarium* brown rot, and *F.* yellows, 129
Gleditschia sinensis: *Phyllactinia corylea*, 17
Gloeosporium apocryptum, 132
 --- *fructigenum*, 132
Glomerella cingulata, 150, 164; on *Magnolia grandiflora*, 169; sour cherry in W. Va., 164
Glycine spp.: diseases in China, 17
Glyoxalidine (341 A, B, or C), 44
Gnaphalium luteoalbum: diseases in China, 17

Gnomonia ovata, 131
Gossypium spp. (see also cotton):
 diseases in China, 18
Gramineae: *Rhizoctonia solani*,
 152
Grape: fungicide tests for control
 of black rot and downy mildew,
 113, 166
Gray leaf spot, of tomato, fungi-
 cide tests for control of 121,
 156
Guayule: *Sclerotinia sclerotiorum*
 in Calif., 168
Guignardia aesculi, 131
 --- *bidwellii*, 79
Gymnosporangium clavipes, 132
 --- *globosum*, 169
 --- *juniperi-virginianae*, 169

Hawaii, 98
Hawthorn, see *Crataegus*
Hawthorn rust, of *Crataegus mol-*
lis, 169; *Juniperus* spp., 169
Hedera napalensis var. *sinica*;
Phyllosticta hederacea, 18
Helianthus annuus: diseases in
 China, 19
Helminthosporium, on wheat, fungi-
 cide tests for control of, 140
 --- *avenae*, 146
 --- leaf spot, of oats, 146
 --- *victoriae* 140, in W. Va., 146
Hemarathria compressa: diseases in
 China, 19
Heterodera marioni (see also root
 knot), 135, 136, 151, 165
Heteropogon contortus: diseases
 in China, 19
Hibiscus mutabilis: *Sphaerotheca*
fuliginea, 19
Hickory, see *Carya*
Hollow stalk, of tobacco, 160
Honeydew melon diseases: fungi-
 cide tests for the control of,
 58
Hordeum sativum var. *vulgare*: dis-
 eases in China, 19
Host index of parasitic fungi,
 China. Suppl. 173, pp. 1-38

Hovenia dulcis: *Septobasidium pedi-*
cellatum, 19
Humulus japonicus: diseases in China,
 19
Hypericum chinense: *Oidium* sp., 19

Idaho, 156, 157
Illinois, 45, 61, 73, 81, 98, 146, 166
Impatiens spp.: diseases in China,
 19, 20
Imperata cylindrica: *Puccinia rufi-*
pes, 20
Index to fungicides and crops in
various tests, 44
Index to Supplement 178, 289-291
Indiana, 45, 63, 72, 98, 146, 156, 160
Indigofera sp.: diseases in China,
 20
Insect injuries: lima bean, 156
Iowa, 63, 72, 81, 98, 146, 169
Ipomoea spp.: diseases in China,
 20
Iris japonicus: diseases in China,
 20

Juglans nigra: *Marssonina* leaf
 spot, 131
 --- *regia*: bacterial blight, 166
Juniperus spp.: apple rust, 169;
 hawthorn rust, 169
 --- *chinensis*: diseases in China,
 20
 --- *virginiana*: quince rust, 132
Justicia sp.: *Cercospora justiciae-*
cola, 20

Kalopenax spp.: diseases in China,
 21
Kansas, 98, 146, 148, 149
Kentucky, 162, 427
Kuehneola uredinis, 165
Kyllinga brevifolia var. *gracillima*:
Puccinia kyllingae-brevifoliae, 21

Lactuca spp.: diseases in China, 21
Lagerstroemia indica: *Uncinula aus-*
traliana, 21
Late blight (see also *Phytophthora*
infestans, tomato, potato), fungi-

(Late blight) -cide tests for control of, on potato 63, 117, 119, 126, 127, on tomato 82, 120, 126, 127; of potato 158; of *Solanum dulcamara* 158; in warning service area, see index to Suppl. 178, pp. 289-291

Lathyrus odoratus: *Erysiphe polgoni*, 21

Leaf blight, of *Crataegus oxyacantha*, fungicide tests for control of, 131

Leaf blotch, of *Aesculus hippocastanum*, fungicide tests for control of, 131

Leaf curl, of peach, fungicide tests for control of, 113; 164

Leaf diseases, of raspberry, fungicide tests for control of, 115

Leaf rot and spot, of *Colchicum autumnale*, 167

Leaf rust, of wheat, 148

Leaf spot, of carrot, fungicide tests for control of, 52; of *Carya* spp., fungicide tests for control of, 131; cherry, 111, fungicide tests for control of, 76; *Rosa* spp., 168; *Soja max*, 151

Leaf spot (foliar nematode), of *Chrysanthemum* spp., 167

Leersia japonica: diseases in China, 21

Leonurus sp.: *Erysiphe galeopsidis*, 21

Lepidium virginicum: *Erysiphe polgoni*, 21

Lettuce: root knot, 136

Leucas mollissima var. *chinensis*: Oidium *leucas-javanicae*, 21

Ligularia hodgsoni: *Sphaerotheca fuliginea* 21

Ligustrum lucidum: *Cercospora ligustricola*, 22

Lindera sp.: *Uncinula fraxini*, 22

Linum usitatissimum: diseases in China, 22

Liriope graminifolia: *Vermicularia ophiopogonis*, 22

Litsea populifolia: *Aecidium* sp., 22

Lotus corniculatus var. *japonicus*: *Erysiphe graminis*, 22

Louisiana, 51, 98, 147, 152, 156, 159, 169

Luffa cylindrica: diseases in China, 22

Lupinus angustifolius: anthracnose, threat to seed crop, 150; *Ceratophorum setosum* in Ga. 1st rept. from U. S., 150

Lycium chinense: diseases in China, 22

Lycopersicum esculentum: diseases in China, 22

Lysimachia sp.: *Puccinia dieteliana*, 23

Lysol, 44

Machilus sp.: diseases in China, 23

Macrosporium blight, of onion, fungicide tests for control of, 49

Magnolia grandiflora: *Glomerella* leaf spot, 169

Mahonia fortunei: *Puccinia graminis*, 23

Maine, 45, 63, 71, 98, 158, 165, 169

Malus spp.: diseases in China, 23

Malva sylvestris: diseases in China, 23

Manganese ethylene ethylene bis, 44

Manitoba, 98

Maps: distribution of--cucurbit downy mildew in 1948, 176; potato late blight in 1948, between 172-173; tobacco blue mold in 1947, 161, in 1948, 174; tomato late blight in 1948, between 172-173

Marssonina leaf spot, of *Juglans nigra*, fungicide tests for control of, 131

Maryland, 45, 55, 61, 81, 98, 154, 158, 162, 165, 166, 168

Massachusetts, 45, 55, 99, 162

Mazus stachydifolius: diseases in China, 23

Medicago spp.: diseases in China, 23, 24

(*Medicago*) *sativa*: bacterial wilt, 150; downy mildew, 150; stem rot, 150; winter injury, 150.

Melanose, of *Citrus*, fungicide tests for control of, 114.

Melia azedarach: diseases in China, 24.

Melilotus spp.: yellow bean mosaic (virus), 158.

--- *indica*: diseases in China, 24.

Mentha spp.: *Verticillium* wilt, 160.

--- *spicata*: rust, 160.

Michigan, 55, 63, 72, 73, 81, 99, 160, 164.

Minnesota, 45, 63, 72, 81, 99, 149.

Miscanthus spp.: diseases in China, 24.

Mississippi, 99, 155, 169.

Missouri, 45, 99, 151, 166, 169.

Momordica charantia: diseases in China, 24.

Monilinia fructicola, 74, 156, 157, 164.

Morus spp.: diseases in China, 24.

Mosla lanceolata: *Coleosporium perillae*, 24.

"Multiplier" trouble of strawberry, see "witches'-broom".

Mushroom root rot, cf *Ficus elastica*, 167.

Myceliophthora lutea, 159.

Mycosphaerella citrullina, 57.

--- *rosigena*, 168.

Myxosporium sp., on *Cornus florida*, fungicide tests for control of, 131.

Narcissus pseudo-narcissus: *Fusarium* basal rot, 129.

--- *tazetta* var. *chinensis*: *Sclerotium ambiguum*, 24.

Nebraska, 99, 146, 169.

Nematode, meadow, on cotton and tobacco, fungicide tests for control of, 135.

---, root knot, on cotton, sugar beet and tobacco, fungicide tests for control of, 135.

Nematospora phaseoli, on lima bean in La., 156.

New distribution: bacterial canker on *Vigna sinensis* in Ill., 152; barley scald in Pa. and W. Va., 147; *Ceratophorum setosum* (Ga.) 1st rept. from U. S., 150; clover anther mold on *Trifolium repens* var. *Ladino* in Oreg. (new host), 151; *Curvularia* spot, on *Gladiolus* spp., in Fla. and Ala., 168; downy mildew of oats in La., 147; downy mildew of wheat in N. Y., 149; *Glomerella cingulata* on sour cherry from W. Va., 164; gray leaf spot of tomato in Ind., 156; *Helminthosporium* blight of oats in W. Va., 146; *Nematospora phaseoli* on lima bean in La., 156; *Phymatotrichum* root rot on cotton in La., 159; *Physoderma* sp. on *Agropyron repens* (Wis.) 1st rept. in North Amer. 152; *Septobasidium pseudo-pedicellatum*, on *Aleurites fordii* in La., new host, 159; stripe smut of *Phleum pratense* in N. H., 151; twig blight, of *Forsythia viridissima*, 167; *Verticillium albo-atrum* on cotton, in N. C., 160.

New Hampshire, 45, 73, 99, 151.

New Jersey, 45, 63, 72, 81, 99.

New Mexico, 99, 153, 160.

New York, 45, 50, 53, 61, 63, 71, 73, 81, 99, 149, 154, 164.

Nicotiana repanda (see also tobacco): blue mold in Tex., 162.

--- *tabacum*: diseases in China, 25.

North Carolina, 45, 55, 87, 99, 160, 162, 165, 167, 168.

North Dakota, 63, 72, 81, 100, 146, 149.

Nova Scotia, 100.

Nyssa sylvatica: twig blight, 132.

Oats: anthracnose, 146; covered smut, 140; crown rust, 147; downy mildew 1st rept. from La., 147; *Helminthosporium* blight 1st rept. from W. Va., 146; *Helmin-*

(Oats:) -thosporium leaf spot, 146; *Helminthosporium victoriae*, 140; winter killing, 147

Oenanthe stolonifera: *Puccinia oenanthes*, 25

Oenothera sp.: *Cercospora lingi*, 25

Ohio, 45, 51, 53, 55, 61, 63, 71, 73, 81, 100, 151

Oklahoma, 73, 100, 148

Okra: root knot, 136

Onion: downy mildew, 125, 126, 152; fungicide tests for the control of diseases, 49

Ontario, 100

Ophiobolus oryzinus, 148

Opismenus undulatifolius: *Puccinia* sp., 25

Oregon, 100, 151, 156, 157, 160, 164, 166

Ornamentals: fungicide tests for control of diseases, 61, 129

Oryza sativa: diseases in China, 25

Oryzopsis obtusa: *Uredo* sp., 26

Osmanthus fragrans: diseases in China, 26

Ovulinia azaleae, 166

Oxalis corniculata: *Puccinia sorghi*, 26

Pachyrhizus tuberosus: diseases in China, 26

Paeonia spp.: diseases in China, 26

Paliurus ramosissimus: diseases in China, 26

Parzate, 44

Paspalum scrobiculatum: *Ephelis japonica*, 26

Paulownia fargesii: *Phyllactinia imperialis*, 26

Peach: anthracnose, 164; bacterial spot, 112, 165; blight, 164; Bordeaux injury, 164; brown rot, 112; brown rot blossom blight, 164; dieback, 164; leaf curl, 113, 164; root knot, 165; winter injury, 165

Pear: fireblight, 165; scab, 111

Pecan: scab, 115

Pennisetum alopecuroides: diseases in China, 26

--- *sinense*: *Claviceps purpurea*, 26

Pennsylvania, 45, 63, 71, 81, 100, 147, 154, 156, 158, 159

Pepper, chile: *Phytophthora blight*, 153

P.E.P.S., 44

Perilla spp.: *Coleosporium perillae*, 26

Peronospora destructor (see also downy mildew), 152

--- *tabacina* (see also blue mold), 160, 171

--- *trifoliorum* (see also downy mildew), 150

Petal blight, of Azalea, 166

Phaenosperma globosa: *Puccinia* sp., 27

Phaseolus spp.: diseases in China, 27

Phleum pratense: flag smut, 1st rept. in N. H., 151

Phoma lingam, 153

Phomopsis sp.? on *Nyssa sylvatica*, 132

Phragmites vulgaris: diseases in China, 27

Phygon, 44

Phyllostachys sp.: diseases in China, 27

Phyllosticta glycineum, 151

Phymatotrichum omnivorum, on cotton in La., 159

Physoderma sp., on *Agropyron repens*, new in Wis. and 1st rept. in North Amer., 152

Phytomonas begoniae, 166

Phytophthora capsici, 153

--- *cinnamomi*, 166

--- *infestans* (see also late blight), 82, 117, 119, 120, 126, 127, 158, 289-291; forecasting in S. C. 217, in Va., 156; fungicide tests for control in the warning service area, 270, 277, in 14 States, 63

(*Phytophthora*) *parasitica* var. *nicotianae*, 162

Pilea sp.: *Cercospora pileae*, 27

Pink patch, of bent turf, 132

Pinus massoniana: *Cronartium quercuum*, 27

--- *nigra*: tip blight, 131

Pisum sativum: diseases in China, 27, 28

Plant disease developments in U.S. in 1947, *Suppl.* 177, pp. 143-169

Plantago major: diseases in China, 28

Plasmopara viticola, 166

Platanus acerifolia: canker stain, 169

--- *occidentalis*: anthracnose, 132

Plectranthus amyethystoides: *Plasmopora plectranthi*, 28

--- *nervosus*: *Coleosporium plectranthi*, 28

Plum, Japanese: bacterial spot, 165

PMAS, 44

Poa annua: *Puccinia poae-sudeticae*, 28

Pod and stem blight, of *Soja max*, 151

Polygonum spp.: diseases in China, 28

Populus tomentosa: *Phyllactinia corylea*, 28

Portugal, 167

Portulaca oleracea: *Albugo portulacae*, 29

Potato: early blight, 66, 118, 119, 126, 127; late blight, 63, 117, 119, 126, 127, 158, in warning service area see index to *Suppl.* 178, pp. 289-291; *Pythium* rot, 158; root knot, 136; scab, 158; soft rot, 158

Powdery mildew, of barley, 147; cucurbits, fungicide tests for control of, 58; squash, 123; tomato, 126; wheat, 148

Prince Edward Island, 100

Prunus spp.: diseases in China, 29

Pseudomonas phaseolicola, 157

--- *viridifaciens*, 157

Pseudoperonospora cubensis, 153, 171

Pterocarya stenoptera: *Phyllactinia corylea*, 30

Puccinia coronata, 147

--- *flaveriae*, 167

--- *menthae*, 160

--- *rubigo-vera* var. *tritici*, 148

Pulsatilla cernua: *Tranzschelia suffusca*, 30

Punica granatum: diseases in China, 30

Puratized, 44

Purple blotch, of onion, fungicide tests for control of, 49

Pyracantha sp.: *Phyllactinia corylea*, 30

Pyrenophora avenae, 146

Pyrus spp.: diseases in China, 30

Pythium rot, of potato, 158

Quercus spp.: diseases in China, 30, 31; twig blight, 132

Quince rust, of *Juniperus virginiana*, 132

Races (see also strains) of *Phytophthora infestans* in Pa., 158

Ranunculus catoniensis: diseases in China, 31

Raphanus sativus: diseases in China, 31

Raspberry: anthracnose, 115; bacterial twig and blossom blight, 165; leaf diseases, 115

---, black: mild streak (virus), 166

Rhamnus leptophyllus: diseases in China, 31

Rhizoctonia solani, 88, 152, 158; on *Tulipa* sp. var. *William Pitt*, 168

Rhode Island, 45, 63, 71, 100

Rhododendron spp.: diseases in

(*Rhododendron* spp.): - China, 31

Rhus spp.: diseases in China, 31

Rhynchosporium secalis, in Pa. and W. Va., 147

Rice: *Aspergillus* sp., 148; black sheath rot, 148; *Fusarium* sp., 148

Ricinus communis: diseases in China, 31

Ring spot, of cherry, 111

Robinia pseudo-acacia: *Microsphaera baemneri*, 31

Root knot, fungicide tests for control of, on bean 136, carrot 136, cotton 135, lettuce 136, okra 136, potato 136, *Rosa* 136, sugar beet 135, tobacco 135, tomato 136; of peach 165; of *Trifolium pratense* 151

Root rot, of *Azalea*, 166

Rorippa montana: *Sclerotinia sclerotiorum*, 31

Rosa: blackspot, 130; diseases in China, 31, 32; leaf spot, 168; root knot, 136

Rubus spp.: diseases in China, 32

Rumex spp.: diseases in China, 32

Rust, of *Antirrhinum majus*, 130; apple, 110; *Calendula officinalis*, 167; *Mentha spicata*, 160; wheat, 149

Rusts, of vegetables, Zerlate for control of, 126

Saccharum spp.: diseases in China, 32

Sagittaria sagittifolia: *Doassan-siopsis sagittariae*, 32

Salix spp.: diseases in China, 32

Sambucus spp.: diseases in China, 33

Sapindus mukurosis; diseases in China, 33

Saskatchewan, 100

Sassafras albidum: anthracnose, 132

Saussurea affinis: *Bremia saussureae*, 33

Scab, of apple, 45, 109; pear, 111; pecan, 115; potato, 158; wheat, 148

Scald, of barley, 147

Schisandra sphenanthera: *Aecidium* sp., 33

Scleria hebecarpa: *Ustilaginoidea flavonigrescens*, 33

Sclerospora macrospora on oats in La., 147; wheat in New York, 149

Sclerotinia sclerotiorum, 157

--- *sclerotiorum*, 1st reprod. in N. C., 167; distribution, 168

--- *trifoliorum*, 150

Surf, of sweetpotato, 141

Secale cereale: *Puccinia dispersa*, 33

Seed treatments, for control of diseases, 139

Seedling blights, of corn, 141; sorghum, 140

Seedox, 87

Senecio densiflorus: *Coleosporium senecionis*, 33

Septobasidium pseudopedicellatum, on *Aleurites fordii*, in La., 159

Septoria, on tomato, 121, 126

--- blight, of celery, fungicide tests for control of, 53

--- leaf spot, of *Chrysanthemum*, 129; fungicide tests for control of, 62; of tomato, fungicide tests for control of, 82

--- *lycopersici*, 82

--- spot, of *Citrus*, 114

--- *tritici*, 149

Sesamum orientale: *Cercospora sesami*, 33

Setaria spp.: diseases in China, 33

Shallot: downy mildew, 152

Sinocalamus affinis: diseases in China, 34

Smilax spp.: diseases in China, 34

Smut, flag, of *Phleum pratense*, 151

---, kernel, of sorghum, 140

---, loose, of barley, 147; wheat, 149

Snapdragon: see *Antirrhinum majus*

Soft rot, of potato, 158
 Soil sterilization and fumigation, for control of diseases, 135
Soja max: leaf spot, 151; pod and stem blight, 151
Solanum spp.: diseases in China, 34
 --- *dulcamara*: late blight, 158
Sonchus oleraceus: *Bremia lactucae* f. *sonchicola*, 34
Sophora spp.: diseases in China, 34, 35
Sorghum: kernel smuts, 140; seedling blight, 140.
 --- *vulgare*: diseases in China, 35
 South Carolina, 55, 81, 87, 100, 154, 162, 169
 South Dakota, 63, 72, 81, 149
 Speckled leaf blotch, of wheat, 149
Spergona, 83
Sphaeropsis sp., on *Quercus* spp., 132
 --- *ellisii*, 131
Spinach: diseases in China, 35; downy mildew, 124, 126
Spodiopogon colutifer: *Puccinia miyoshiana*, 35
Sporobolus indicus: diseases in China, 35
Squash: black rot, 123; blossom-end rot, 123; powdery mildew, 123; fungicide tests for the control of diseases, 58
Stauntonia sp.: *Aecidium* sp., 35
Stellaria spp.: diseases in China, 35
 Stem rot, of *Medicago sativa*, 150
Stemphylium solani, in Ind., 156
 Stone and small fruit diseases, fungicides for control of, 73
 Strains (see also races), of oats in Tex., 147; *Kuehneola uredinis*, 165; *Phytophthora infestans*, 155, in Ind. and Idaho, 158, in warning service area, 171
 Strains of wheat, discarding of, new races of rust, 148
Strawberry: "witches broom" (virus), 163
 Sulfurs--various, 44
Sweetpotato: *Fusarium* wilt, 141; internal cork (virus), 154; scurf, 141
Taphrina deformans, 165
Taraxacum mongolicum: diseases in China, 35
 Tenn. 26, 44
 Tenn. 34, 44
 Tennessee, 101
 Texas, 49, 147, 148, 162, 166 ff.
Thea sinensis: diseases in China, 35
Themedia triandra: diseases in China, 36
Thielaviopsis basicola, 162
Thuja orientalis: diseases in China, 36
Thyrococcus sampsonii: *Peronospora thyrocarpii*, 36
 Tip blight, of *Pinus nigra*, 131
Tobacco: black root rot, 162; black-shank, 162; blue mold, 133, 160, in warning service area see index to Suppl. 178, pp. 239-291; hollow stalk, 160; meadow nematode, 135; root knot, 135
Tomato: anthracnose, 119, 120; bacterial wilt, 154; big bud (virus), 155; blossom drop, 156; early blight, 82, 120, 126, 127; *Fusarium* wilt, 155; gray leaf spot, 121, 1st rept. from Ind. 156; late blight, 120, 126, 127, late blight warning service, 155, in warning service area see index to Suppl. 178, pp. 289-291; mosaic (virus), 156; powdery mildew, 126; root knot, 136; *Septoria*, 121, 126
Trachycarpus excelsa: diseases in China, 36
Tribasic, 44

Trifolium: *Brachysporium trifolii*, 36; winter injury, 151
 --- *pratense*: root knot, 151
 --- *repens* var. *Ladino*: clover anther mold in Oregon, 1st rept. on this host, 151
Trigonotis peduncularis: *Peronospora trigonotidis*, 36
Trisetum macranthum: *Puccinia triseti*, 36
 --- *aestivum*: diseases in China, 36
Tulipa sp., var. *William Pitt*: top rot bulb infection, 168
Turf, bent: copper spot, 132; dollar spot, 132; pink patch, 132
 Twig blight, of *Cornus florida*, 131; *Forsythia viridissima*, 167; *Nyssa sylvatica*, 132; *Quercus* spp., 132
Ulmus americana: phloem necrosis (virus), 169
Urocystis agropyri, 151
Ustilago nuda, 147
 --- *tritici*, 149
Utah, 101, 156, 157
 Vegetables: anthracnose diseases, 127; fungicides for control of diseases, 117, 126; powdery mildew diseases, 127; rusts, 127
Vermont, 151
Veronica spp.: diseases in China, 36
 Vert-de-gris, of *Agaricus campestris*, 159
Verticillium aboatrum, on cotton in N. C., 160
 --- wilt, of *Mentha* spp., 160
Viburnum sp.: *Cercospora* sp., 37
Vicia spp.: diseases in China, 37
Vigna sinensis: bacterial canker, first rept. from Ill., 152; diseases in China, 37
Viola spp.: diseases in China, 37

(*Viola*) *tricolor hortensis*: seedling decay, 137
Virginia, 45, 101, 147 ff., 154, 156, 160, 162, 166
 Virus diseases: big bud of tomato, 155; black root of bean, 157; die-back of birch, 169; greasy pod of bean, 157; internal cork of sweet-potato, 154; little cherry (Western X-disease) of cherry, 163; mild streak of black raspberry, 166; mosaic of bean 157, celery 152, *Commelina longicaulis*, 153, cucurbits 154, fig 163, tomato 156, wheat 149; phloem necrosis of *Ulmus americana*, 169; sweet cherry, 163; "witches broom" of strawberry, 163; X-disease of choke-cherry 164, sour cherry 164; yellow bean mosaic of bean 157, of *Melilotus* sp. 158
Vitis spp.: diseases in China, 38
 Walnut: bacteriosis, 114
 Warning Service, for late blight, 155, see also index to Suppl. 178, pp. 289-291
Washington, 153, 156, 160, 163, 165 ff.
 Watermelon: downy mildew, 123
 Weather 1947: average annual precipitation, 144; mean temperature, 143; normal precipitation for growing season, 145
 Weather injuries: winter injury to *Medicago sativa* 150, peach 165, to *Trifolium* spp. 151; winter killing of oats, 147
West Virginia, 45, 73, 101, 146, 147, 164
 "Wet weather canker", of cotton, 159
 Wheat: bunt, 140; downy mildew, 1st rept. in N. Y., 149; leaf rust, 148; loose smut, 149; mosaic (virus), 149; powdery mildew, 148; scab, 148; speckled leaf blotch, 149; stem rust, 149
 White mold, of bean, 157
 Winter injury, of *Trifolium* spp., 151

Wisconsin, 45, 73, 101, 146, 152, 160,
163
Wyoming, 101, 156, 157

Xanthomonas campestris, 153
--- corylina, 166
--- juglandis, 166
--- phaseoli, 157
--- pruni, 165
--- vignicola, on *Vigna sinensis*
in Ill., 152

Xylosma racemosum var. *pubescens*,
diseases in China, 38
Zanthoxylum simulans: *Septobasidium*
pedicellatum, 38
Zea mays: diseases in China, 38
Zerlate, 44, 88
Zinnia elegans: *Cercospora zinniae*, 38
Zizania latifolia: diseases in China,
38
Zizyphus jujube: diseases in China, 38

18 67m